

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality
West Central Regional Office
STATEMENT OF LEGAL AND FACTUAL BASIS

Stanley Furniture Company
140 Hollie Drive, Martinsville, Virginia
Permit No. WCRO-31027

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Stanley Furniture Company, has applied for a Title V Operating Permit renewal for its wood furniture manufacturing plant in Martinsville. The Department reviewed the application for permit renewal and has prepared a final Title V Operating Permit.

Engineer/Permit Contact: _____ Date: _____

Air Permit Manager: _____ Date: _____

FACILITY INFORMATION

Permittee

Stanley Furniture Company
P.O. Box 30
Stanleytown, VA 24168

Facility

Stanley Furniture Company
140 Hollie Drive
Martinsville, VA 24112

County-Plant Identification Number: 51-089-0122
Registration No.: 31027

First Renewal of Title V Operating Permit

SOURCE DESCRIPTION

NAICS Code: 337122 – Non-upholstered Wood Household Furniture Manufacturing
SIC Code 2511 – Wood Household Furniture Manufacturing

This is a conventional household wood furniture manufacturing plant. The facility is located in the town of Martinsville in Henry County and is covered by the November 17, 1999 Prevention of Significant Deterioration (PSD) permit to construct and operate a new wood furniture manufacturing facility. The PSD permit was amended on July 22, 2002 to remove state toxics since the facility is subject to the wood furniture MACT (Subpart JJ).

The plant receives dried rough sawn lumber, performs various woodworking processes, and finishes the wood using primarily spray stains, sealers, and lacquers. Finishes are VHAP compliant.

The facility is comprised of the following areas:

- one 26.5 MMBtu/hr Kewanee boiler fired with natural gas or distillate oil (NSPS Dc)
- assorted woodworking equipment with 4 fabric filter baghouses for PM control
- finishing line consisting of 11 spray booths and one community drying oven (MACT JJ)
- case good assembly area with gluing operations, 5 small spray booths and 3 dip tanks (MACT JJ)
- rub/pack area with 3 spray repair booths, 1 wash-off booth and 3 wash-off tanks (MACT JJ)

The facility is a Title V major for VOCs (permit limit 338 tons/yr from finishing operations) and HAPs (actual emissions exceed 10/25 tons/yr). The facility is PSD major for VOCs and acquired a PSD permit prior to construction in 1999.

This facility is subject to the *new source* provisions of MACT JJ for wood furniture manufacturers. The facility utilizes high volume, low pressure (HVLP) applicators and other pollution prevention techniques to minimize VOC emissions. There are no add-on VOC controls in the furniture finishing area.

The original Title V operating permit was signed on November 18, 2002, with an effective date of December 2, 2002. The permit expires on December 2, 2007. The applicant submitted a timely and complete Title V permit application for a renewal, which extends, if needed, the terms of the current Title V permit until renewal.

COMPLIANCE STATUS

The facility was last inspected on July 31, 2007. It was found to be in compliance.

EMISSION UNIT AND CONTROL DEVICE IDENTIFICATION

Emission units at this facility are as follows:

Emission U	Emission Unit Description	Size/Rated Capacity	Pollution Control Device	Applicable Permit Da and/or Federal Regulation(s)
Fuel Burning Equipment				
EU-FB	Kewanee Model H3S-600-IRI - installed December 1999	26.5 MMBtu/hr burning N. Gas	none	PSD July 22, 2002 NSPS Subpart Dc
		24.8 MMBtu/hr burning #2 F.O.		
Woodworking				
EU-WW	miscellaneous woodworking equipment - sanders, band saws, molders, planers, etc.	2.27 x 10 ⁷ lbs wood/year	4 fabric filters	PSD July 22, 2002
Finishing Operations				
EU-FO	19 spray booths 1 community oven 1 wash off booth 3 wash off tanks 3 dip tanks		water curtains, filters or other DEQ- approved device	PSD July 22, 2002 MACT JJ

EMISSIONS INVENTORY – Actual Emissions

Actual plant emissions for calendar year 2006 as listed in the DEQ CEDS annual emission inventory system are summarized as follows:

2006 Actual Pollutant Emissions in Tons per Year						
	CO	VOC	SO ₂	PM ₁₀	NO _x	HAPs*
TOTAL	0.70	164.7	0.14	2.5	0.86	25.96

*reported HAPs include:
ethylbenzene (0.019 tpy)
glycol ethers (15.392 tpy)
isopropylbenzene (0.019 tpy)
methanol (0.743 tpy)
toluene (8.12 tpy)
Xylene (1.668 tpy)

NSPS, MACT, and CAM APPLICABILITY

NSPS - NSPS Subpart Dc applies to the boiler.

MACT

The Wood Furniture Manufacturing MACT JJ applies to the finishing operations at the facility. The facility uses the compliant coating option to meet the applicable MACT JJ requirements.

The Plywood and Composite Wood Products MACT DDDD does not apply at this facility. They do not manufacture plywood or composite wood products. They have no dry kilns and do not perform any of the gluing operations addressed in the MACT for initial notification.

The Boiler MACT has been vacated. Awaiting guidance on how to proceed with implementation of case-by-case MACT (112j)

CAM

The facility has demonstrated that the processes with pollution control equipment are not subject to CAM because there is less than 100 tons of pollutant going to the control equipment. The following were evaluated:

- Four fabric filter baghouses to control PM emissions on woodworking operations
- Water curtains (or equivalent) for PM control on the spray booths in furniture finishing

CHANGES TO PLANT

There have been no changes to the plant since the original Title 5 permit was issued on November 18, 2002.

CHANGES TO PERMIT

- References to the November 17, 1999 PSD permit will reflect amendment on July 22, 2002
- Visual Observations of the boiler, fabric filters and spray booth exhausts have been changed from once per week to once per month.
- Section VI of the permit has been updated to reflect new source requirements for MACT JJ

REPORTING

The permittee shall submit the following reports:

- annual Title V Compliance Certifications to DEQ and EPA (Region III) by March 1 for the previous calendar year;
- semi-annual Title V Reports to DEQ by March 1 and September 1 of each year (time periods to be addressed are January 1 to June 30 and July 1 to December 31);
- semi-annual Wood Furniture Manufacturing MACT (40 CFR 63 Subpart JJ) Reports to DEQ and EPA (Region III) by March 1 and September 1 of each year (time periods to be addressed are January 1 to June 30 and July 1 to December 31);
- semi-annual reporting in accordance with NSPS Subpart Dc; and
- reports to DEQ within 4 daytime business hours after discovery any malfunctions and any deviations from permit requirements that may cause excess emissions for more than one hour.

GENERAL CONDITIONS

The permit contains general conditions required by 40 CFR Part 70 and 9 VAC 5-80-110 that apply to all facilities operating under a Federal operating permit. Selected requirements are noted below:

B. Permit Expiration

This condition refers to the five year permit term, to the permittee's responsibility to apply for renewal, to the State Air Pollution Control Board taking action on a permit application, and to the prior terms and conditions remaining in effect until the renewal is issued or denied. The authority to take action on permit application(s) has been delegated to the Regions as allowed by §2.1-20.01:2 and §10.1-1185 of the *Code of Virginia*, and the "Department of Environmental Quality Agency Policy Statement No. 3-

Quality Agency Policy Statement No. 3-2001”.

J. Permit Modification

This condition cites the following sections from the Virginia Regulations for the Control and Abatement of Air Pollution:

- 9 VAC 5-80-50 Applicability, Federal Operating Permit For Stationary Sources
- 9 VAC 5-80-190 Changes to Permits.
- 9 VAC 5-80-260 Enforcement.
- 9 VAC 5-80-1100 Applicability, Permits For New and Modified Stationary Sources
- 9 VAC 5-80-1605 Applicability, Permits For Major Stationary Sources and Modifications Located in Prevention of Significant Deterioration Areas

U. Malfunction as an Affirmative Defense

The Virginia Regulations for the Control and Abatement of Air Pollution contain two reporting requirements for malfunctions that coincide. Reporting requirements are listed in sections 9 VAC 5-80-250 and 9 VAC 5-20-180. Malfunction requirements are listed in General Conditions U and F.

This condition cites the following sections:

- 9 VAC 5-20-180 Facility and Control Equipment Maintenance or Malfunction
- 9 VAC 5-80-110 Permit Content

Y. Asbestos Requirements

The Virginia Department of Labor and Industry under Section 40.1-51.20 of the Code of Virginia also holds authority to enforce 40 CFR 61 Subpart M, National Emission Standards for Asbestos.

This general condition contains citations from the Code of Federal Regulations as follows:

- 40 CFR 61.145, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to demolition and renovation.
- 40 CFR 61.148, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to insulating materials.
- 40 CFR 61.150, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to waste disposal.

STATE ONLY APPLICABLE REQUIREMENTS

This permit contains no State Only Applicable Requirements

FUTURE AND/OR NEWLY APPLICABLE REQUIREMENTS

There are no known future or newly-applicable requirements for this facility.

INAPPLICABLE REQUIREMENTS

- Boiler MACT (DDDDD) - has been vacated
- CAM - not applicable
- Plywood and Composite Wood Products MACT (DDDD) - not applicable

The startup, shut down, and malfunction opacity exclusion listed in 9 VAC 5-40-20 A 3 (for pre-1972 existing emission units) cannot be included in any Title V permit because this portion of the regulation is not part of the federally approved state implementation plan (SIP). The opacity standard applies to existing sources at all times including startup, shutdown, and malfunction. Opacity exceedances during malfunction can be affirmatively defended provided all requirements of the affirmative defense section of this permit are met. Opacity exceedances during startup and shut down will be reviewed with enforcement discretion using the requirements of 9 VAC 5-40-20 E, which state that "At all times, including periods of startup, shutdown, soot blowing and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions." Since this is a new plant as of 1998, the existing source opacity exclusion is not applicable for any equipment at this facility.

In contrast, the similar startup, shut down, and malfunction opacity exclusion listed in 9 VAC 5-50-20 A 4, for emissions units that are new or modified since 1972, is SIP-approved and therefore applies to all emissions units at this facility.

COMPLIANCE PLAN

This facility is not subject to a compliance plan.

INSIGNIFICANT EMISSION UNITS

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Insignificant emission units include the following:

Emission Unit	Emission Unit Description	Citation	Pollutants Emitted	Rated Capacity
AST-1 thru	5 organic liquid storage tanks	9 VAC 5-80-720.B.	VOC	3,000 gallons each
AST-6	No. 2 fuel oil storage tank	9 VAC 5-80-720.B.	VOC	12,000 gallons
SH 1-23	23 Modine space heaters	9 VAC 5-80-720.A.	NO _x , VOC, PM	0.2 MMBtu/hr each
MDT-1	Maintenance dip tank and prep cleaner (non-halogenated)	9 VAC 5-80-720.A.	VOC	--

CONFIDENTIAL INFORMATION

The permittee did not submit a request for confidentiality. All portions of the Title V application are suitable for public review.

PUBLIC PARTICIPATION

The draft/proposed permit was advertised for public notice in the *Martinsville Bulletin* on September 17, 2007. The required 30-day public notice period closed on October 17, 2007 with no comments received.

The EPA 45 day concurrent review period was September 17, 2007 through November 1, 2007. No comments were received from EPA.

This permit was advertised for *concurrent review*.